Geosyntec consultants

475 14th Street, Suite 400
Oakland, California 94612
PH 510.836.3034
FAX 510.836.3036
www.geosyntec.com

31 July 2007

Mr. Roger Papler, P.G.
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Subject: Results of Second Quarter 2007 Groundwater Monitoring
Hopyard Cleaners, 2771 Hopyard Road, Pleasanton, California
Self-Monitoring Program No. R5-2006-0059

Dear Mr. Papler:

This report transmits the subject monitoring results for Hopyard Cleaners, 2771 Hopyard Road, (the "Site") in Pleasanton, California. A site location map is provided in Figure 1. The work described in this report was performed in compliance with the California Regional Water Quality Control Board (RWQCB) Monitoring and Reporting Program (MRP) No. R5-2006-0059.

The monitoring well network at the Site consists of three wells installed to 30 feet below ground surface (ft bgs), in the uppermost groundwater beneath the Site. Well completion details are summarized in Table 1. Well locations relative to the site are shown on Figure 2. Two additional wells (MW-4 and MW-5) were installed in July 2007. Well installation details and monitoring results for these two wells will be included in the third quarter 2007 monitoring report.

WORK PERFORMED THIS QUARTER

The second quarter groundwater monitoring event was performed on 11 May 2007. A temporary well was installed northwest of the commercial building containing the bookstore and pizzeria on 27 June 2007. This work is discussed in the following sections.

QUARTERLY GROUNDWATER MONITORING

Quarterly groundwater monitoring was performed at the Site on 11 May 2007. Details are described below.

Sampling and Analytical Procedures

The groundwater sampling fieldwork was performed by Environmental Sampling Services, Inc. (ESS), of Martinez, California. ESS's report, including field procedures and sampling logs, is provided in Attachment 1. Samples were hand-delivered to Severn Trent Laboratories, Inc. (STL) of Pleasanton, California for analysis. Groundwater samples from the Site monitoring wells were analyzed for volatile organic compounds (VOCs) by EPA method 8260B.

Groundwater Elevations and Flow Conditions

Table 2 summarizes groundwater elevations measured during this sampling event. Groundwater beneath the Site was encountered between approximately 11.9 and 12.7 ft bgs. This depth corresponds to an elevation approximately between 313.5 and 314 ft above Mean Sea Level (MSL). Groundwater elevations in the second quarter 2007 are the highest since monitoring began in November 2006.

Water level measurements taken during the May 2007 event were used to construct groundwater elevation contours, as presented on Figure 2. The water levels measured in the Site monitoring wells in second quarter 2007 indicate a general flow to the north-northwest with an average gradient of 0.003 ft/ft (15.8 ft/mile).

Data QA/QC

Geosyntec performed a quality assurance/quality control (QA/QC) review of the analytical data. Data were reviewed for completeness, accuracy, precision, sample contamination, conformance with holding times, and detection limits within acceptable ranges. The results of the QA/QC review indicate that groundwater data are of acceptable quality.

Analytical Results

Laboratory analytical reports are provided in Attachment 2. Table 3 summarizes analytical results for groundwater samples collected during the second quarter 2007 event and previous events. Analytical results for the current sampling event are also shown on Figure 2. Isoconcentration contour maps for tetrachloroethene (PCE) and trichloroethene (TCE) are shown on Figures 3 through 5. The isoconcentration contours were drawn using current data from monitoring wells along with grab groundwater sample results previously collected at the Site.

This is the third monitoring event since the wells were installed in September 2006. Analytical results for samples taken from the three monitoring wells showed the highest VOC

concentrations at MW-2. The PCE and TCE concentrations at well MW-2 were 1,000 and 7,200 µg/L, respectively. These results are greater than the results from the previous sampling event (first quarter 2007) for this well. Additional monitoring will be conducted to assess any concentration trends.

TEMPORARY WELL INSTALLATION

A temporary well was installed on 27 June 2007 to investigate whether adequate groundwater yield exists at the downgradient end of the shallow zone plume, between boring locations B-41 and B-30, for a monitoring well to be installed at this location. Confirmation of inadequate groundwater yield in this area was requested by the RWQCB in a conditional approval letter dated 18 June 2007.

Before drilling, Geosyntec obtained a drilling permit from the Alameda County Flood Control and Water Conservation District, Zone 7. The boring locations were marked with white paint and Subtronics Corporation of Concord, California cleared the area northwest of the pizzeria, between B-41 and B-30, of potential underground utilities. Underground Service Alert was notified on 22 June 2007.

On 27 June 2007, temporary well B-43 was drilled at the location shown on Figures 3 and 5. The soil boring was advanced using a Geoprobe® 6600 direct-push rig operated by Cascade Drilling, Inc (Cascade) of Rancho Cordova, California. The borehole was hand augered for the first 6 ft bgs and then advanced to 30 ft bgs using 2-inch diameter steel rods. The boring was continuously cored using vinyl acetate liners. After retrieving the core, the acetate liner was cut open to visually observe and log the samples using the Unified Soil Classification System (USCS). The geologic materials primarily consisted of sandy silts from 6-12 ft bgs and clay from 12-30 ft bgs with a 1-foot layer of sandy silt from 16.5-17.5 ft bgs. A photoionization device (PID) was used to screen the soil cores for VOCs. No VOCs were detected by the PID.

Soil samples were collected at intervals of 25 to 26 ft bgs and 29 to 30 ft bgs. The samples were shipped to Cooper Testing Laboratory of Palo Alto, California and were analyzed for particle size distribution and Atterberg limits. The results of the testing indicated the material at both intervals is a lean clay. The soil properties report is provided in Attachment 3. The boring log of B-43 is provided as Attachment 4.

A ¾-inch Schedule 40 PVC pipe was placed in the borehole with a screen section over the bottom 20 to 30 ft bgs. The pipe remained in the borehole for three and a half hours before a Geosyntec field engineer attempted to sample the well using a stainless steel bailer. No water was present in the well and a sample could not be collected.

The PVC pipe was removed from the boring and the borehole was grouted using 95% neat cement and 5% bentonite mixture with asphalt surface completion. All investigation derived waste was stored on-site pending disposal.

FUTURE WORK

The next quarterly groundwater monitoring event will be performed in August 2007 and the results will be discussed in the quarterly monitoring report due to the RWQCB on 31 October 2007.

Monitoring wells MW-4 and MW-5 (Figure 6) were installed from 16 July through 23 July 2007. Installation and well development activities will be reported to the RWQCB in the third quarter monitoring report. These two wells will be included in the third quarter monitoring event.

Beginning 30 July 2007, Scott Felton will no longer be the primary contact for this Site. Angela Liang, Ph.D., P.E. will be the new project manager from Geosyntec. If you have any questions, please call Angela at (510) 836-3034.

Sincerely,

Melissa Asher

Melissa Asher
Staff Engineer

Hanchih (Angela) Liang, Ph.D., P.E.
Senior Engineer

Attachments:

Table 1	Well Construction Summary
Table 2	Groundwater Elevations
Table 3	Groundwater Analytical Summary
Figure 1	Site Location
Figure 2	Second Quarter 2007 Groundwater Elevation Contours and Analytical Results
Figure 3	Second Quarter 2007 PCE Isoconcentration Contours in Groundwater at 20 to 30 ft bgs
Figure 4	Second Quarter 2007 PCE Isoconcentration Contours in Groundwater at 40 to 60 ft bgs
Figure 5	Second Quarter 2007 TCE Isoconcentration Contours in Groundwater at 20 to 30 ft bgs
Figure 6	Proposed Monitoring Well Locations
Attachment 1	Environmental Sampling Services Field Report
Attachment 2	Laboratory Analytical Report
Attachment 3	Soil Properties Analytical Report
Attachment 4	Boring Logs

Copy with Attachments:
Ms. Clare Leung, Hopyard Cleaners
Ms. Joy Ricigliano, Zurich Insurance
Mr. Mark Peterson, GES
Mr. Wyman Hong, Zone 7 Water Agency
Mr. Jerry Wickham, Alameda County Environmental Health
Ms. Danielle Stefani, City of Pleasanton Fire Department
Mr. William Henderlong, Town & Country Properties

TABLES

Table 1
Monitoring Well Construction Summary
Hopyard Cleaners
Pleasanton, California

Well I.D.	Date of Completion	Northing	Easting	TOC Elevation (MSL)	Total Depth (ft bgs)		Screen Interval Depth (ft bgs)		Well Casing Material	Well Diameter (inches)
					Borehole	Well	Top	Bottom		
MW-1	9/29/2006	2071427.29	6157712.24	325.77	30	30	20.00	30.00	SCH 40 PVC	2
MW-2	9/26/2006	2071357.03	6157791.18	325.69	30	30	20.00	30.00	SCH 40 PVC	2
MW-3	9/27/2006	2071461.21	6157787.94	326.27	30	30	20.00	30.00	SCH 40 PVC	2

Notes:
MSL = mean sea level
TOC = Top of Casing
Elevations are based on NAVD 88 Datum

Table 2
Groundwater Elevations
Hopyard Cleaners
Pleasanton, California

Well I.D.	TOC Elevation (ft MSL)	Sample Date	Depth to Groundwater Below TOC (ft)	Groundwater Elevation (ft MSL)
MW-1	325.77	5/11/2007	12.27	313.50
		2/9/2007	13.98	311.79
		11/20/2006	14.88	310.89
MW-2	325.69	5/11/2007	11.87	313.82
		2/9/2007	13.55	312.14
		11/20/2006	14.36	311.33
MW-3	326.27	5/11/2007	12.72	313.55
		2/9/2007	14.41	311.86
		11/20/2006	15.28	310.99

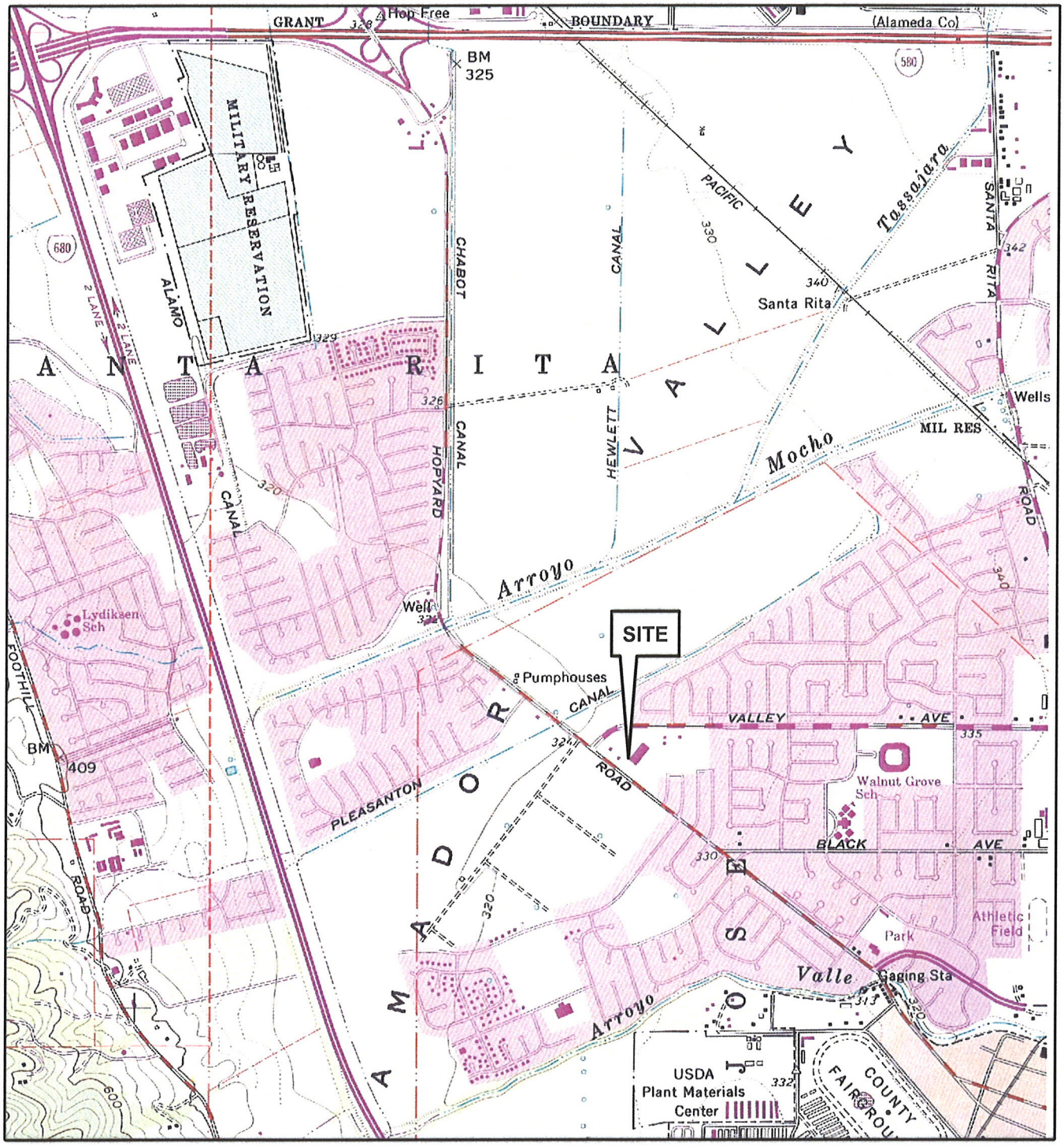
Notes:
ft MSL = feet above mean sea level
TOC = Top of Casing
Elevations are based on NAVD 88 Datum

Table 3
Groundwater Analytical Summary
Hopyard Cleaners
Pleasanton, California

Well I.D.	Sample Date	Volatile Organic Compounds - EPA Method 8260B (ug/L)		
		cis-1,2-DCE	PCE	TCE
MW-1	5/11/2007	310	2500	310
	2/9/2007	270 / 270	2,400 / 2,300	290 / 290
	11/20/2006	370	3100	370
MW-2	5/11/2007	1,000 / 980	7,200 / 7,300	490 / 450
	2/9/2007	760	4700	350
	11/20/2006	800 / 800	5,700 / 5,800	370 / 360
MW-3	5/11/2007	5.5	43	4.4
	2/9/2007	5.3	42	4.2
	11/20/2006	9.5	93	7.2

Notes:
Table shows only compounds detected above the laboratory reporting limit
cis-1,2-DCE - cis-1,2-dichloroethene
PCE - tetrachloroethene
TCE - trichloroethene
"-- / --" - result on right represents duplicate sample

FIGURES



Topo Source: U.S.G.S 7.5 Minute Series,
Dublin, CA Quadrangle (1980)
Contour Interval = 40 Feet

SITE LOCATION MAP
HOPYARD CLEANERS
2771 HOPYARD RPAD
PLEASANTON, CALIFORNIA

N

0 1,000 2,000 Feet

Geosyntec consultants

FIGURE NO.	1
PROJECT NO.	WR0574
DATE:	JULY 2007
FILE NO.	

P:\GIS\location\Hopyard\Project\Figure1.mxd

SHOPPING CENTER

COMMERCIAL BUILDING

COMMERCIAL BUILDING

HOPYARD ROAD

HOPYARD CLEANERS

Screen Depth	20–30
PCE	43
TCE	4.4
c–1,2–DCE	5.5

MW–3
313.55

MW–1
313.50

Screen Depth	20–30
PCE	2,500
TCE	310
c–1,2–DCE	310

313.55
313.60
313.65
313.70
313.75
313.80

MW–2
313.82

Screen Depth	20–30
PCE	7,200/7,300
TCE	490/450
c–1,2–DCE	1,000/980

RESIDENTIAL

RESIDENTIAL

N

0 40

SCALE IN FEET

LEGEND

MW–2
313.82 Monitoring Well Location and Water Elevation (msl)

313.55 Groundwater Elevation Contour

Analytical Results in parts per billion (ug/L).
Depth in feet below ground surface (ft bgs).

Sample Depth	20–30
PCE	2,500
TCE	310
c–1,2–DCE	310

"–– / ––" – result on right represents duplicate sample

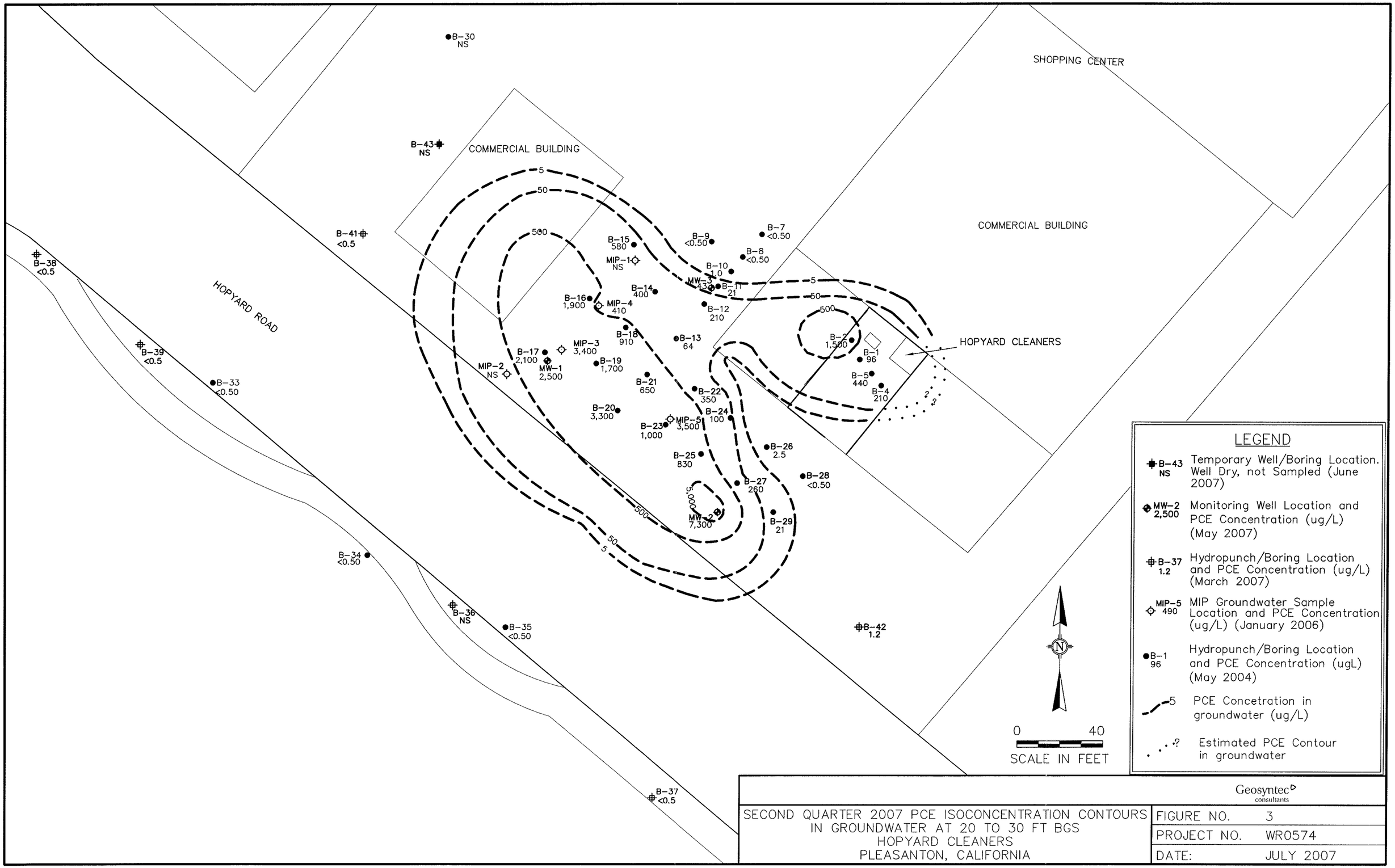
PCE – Tetrachloroethene
TCE – Trichloroethene
c–1,2–DCE – cis–1,2–Dichloroethene

Geosyntec consultants

SECOND QUARTER 2007 GROUNDWATER ELEVATION CONTOURS AND ANALYTICAL RESULTS
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	2
PROJECT NO.	WR0574
DATE:	JULY 2007

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\2Q07\Figures\Figure 2 – GW Cont – Analytical.dwg 7–30–07

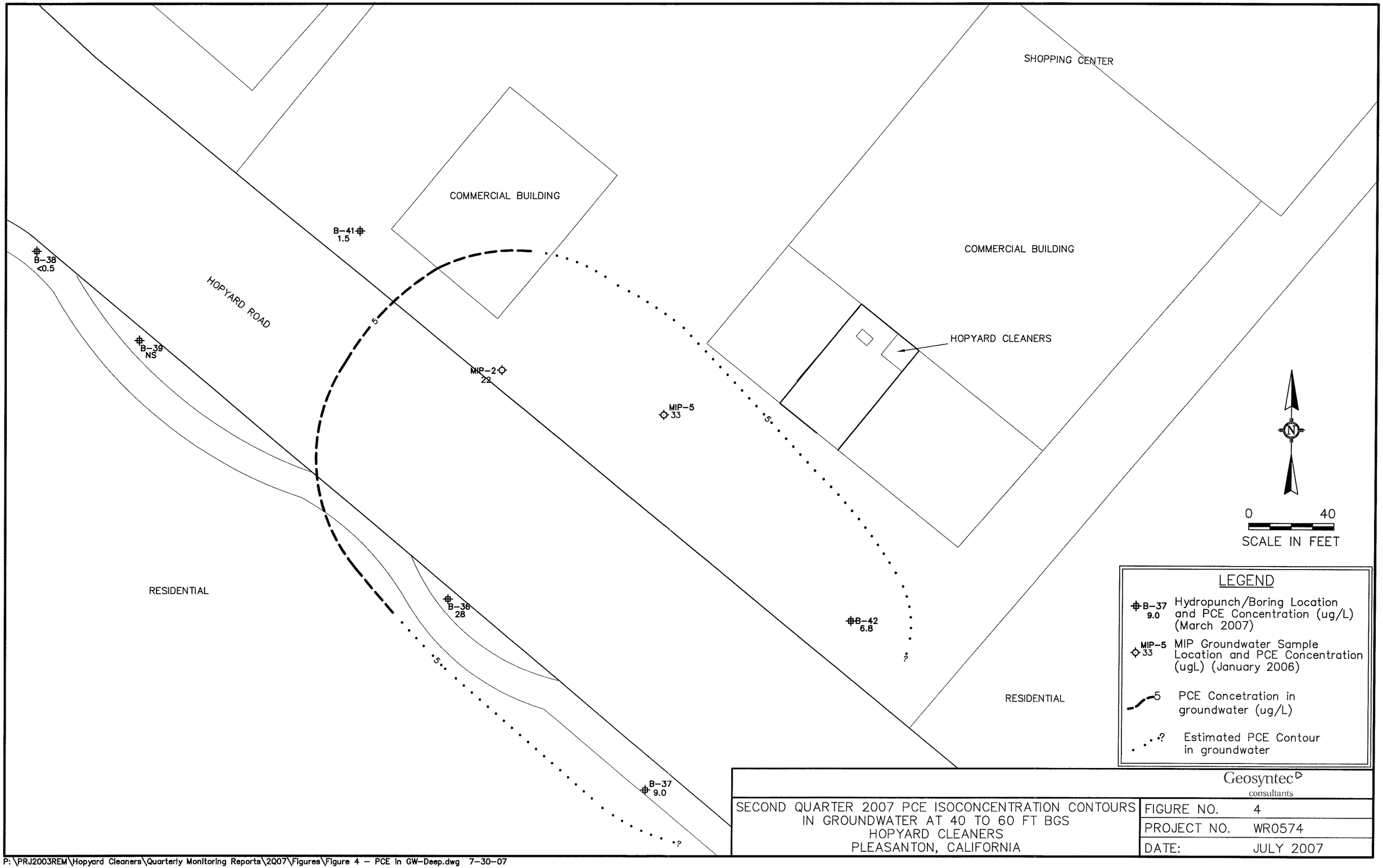


Geosyntec consultants

SECOND QUARTER 2007 PCE ISOCONCENTRATION CONTOURS IN GROUNDWATER AT 20 TO 30 FT BGS
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	3
PROJECT NO.	WR0574
DATE:	JULY 2007

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\2Q07\Figures\Figure 3 – PCE in GW-Shallow.dwg 7-30-07

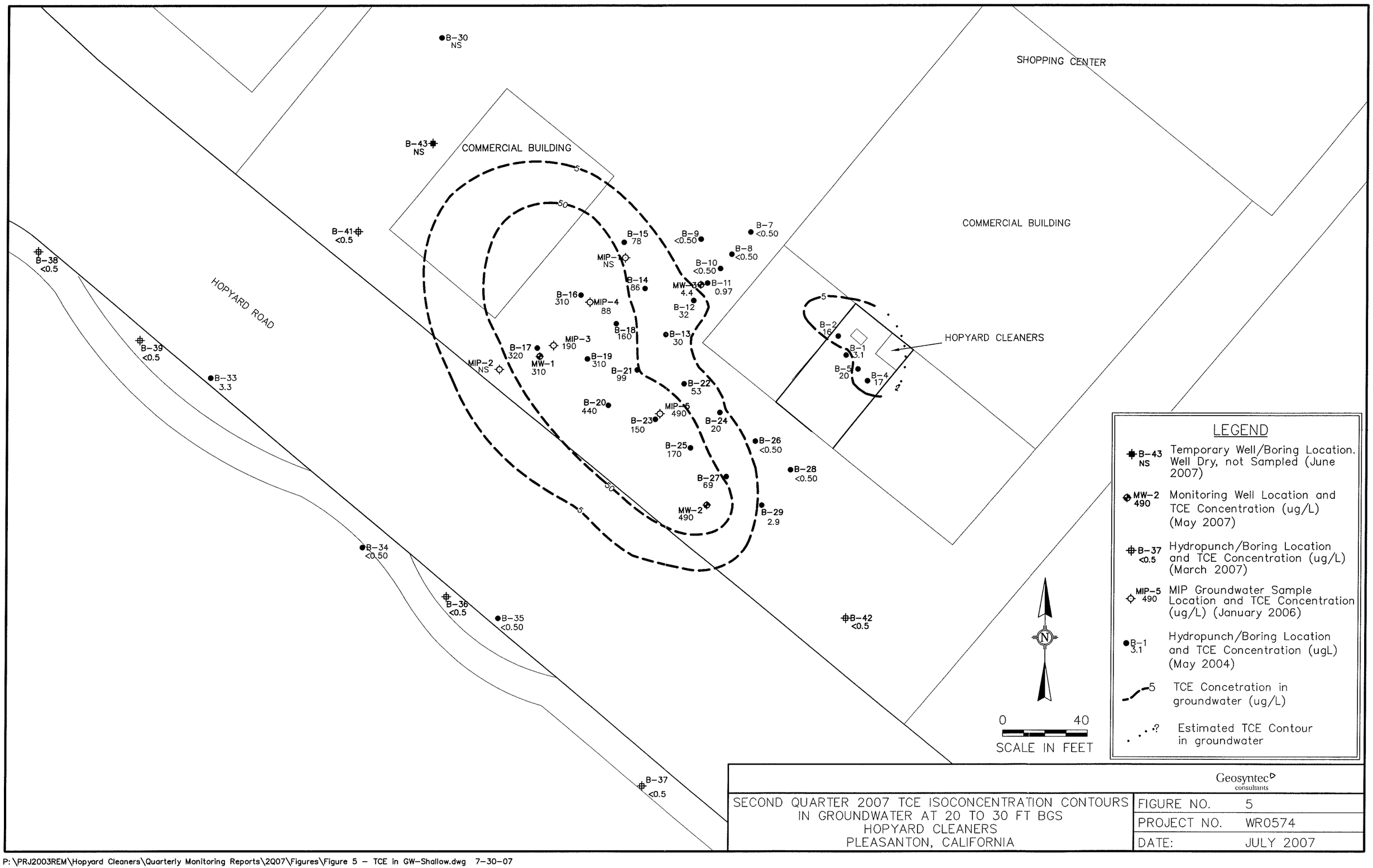


Geosyntec consultants

SECOND QUARTER 2007 PCE ISOCONCENTRATION CONTOURS IN GROUNDWATER AT 40 TO 60 FT BGS
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	4
PROJECT NO.	WR0574
DATE:	JULY 2007

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\2Q07\Figures\Figure 4 – PCE in GW–Deep.dwg 7–30–07



Geosyntec consultants

SECOND QUARTER 2007 TCE ISOCONCENTRATION CONTOURS IN GROUNDWATER AT 20 TO 30 FT BGS
HOPYARD CLEANERS
PLEASANTON, CALIFORNIA

FIGURE NO.	5
PROJECT NO.	WR0574
DATE:	JULY 2007

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\2Q07\Figures\Figure 5 – TCE in GW–Shallow.dwg 7–30–07

SHOPPING CENTER

VALLEY ROAD

MUNICIPAL

VALERO GAS STATION

PARKING LOT

COMMERCIAL BUILDING

SHOPPING CENTER

COMMERCIAL BUILDING

HOPYARD ROAD

MW-4
20-30 FT BGS

HOPYARD CLEANERS

RESIDENTIAL

RESIDENTIAL

MW-5
50-60 FT BGS

N

0 60

SCALE IN FEET

LEGEND

MW-4
20-30 FT BGS

Proposed Additional Groundwater Monitoring Well Location and Approximate Screen Interval

Geosyntec consultants

PROPOSED ADDITIONAL GROUNDWATER MONITORING WELL LOCATIONS
HOPYARD CLEANERS
2771 HOPYARD ROAD, PLEASANTON, CALIFORNIA

FIGURE NO.	6
PROJECT NO.	WR0574
DATE:	JULY 2007

P:\PRJ2003REM\Hopyard Cleaners\Quarterly Monitoring Reports\2Q07\Figures\Traffic Control.dwg 7-02-07

ATTACHMENT 1
ESS FIELD REPORT

FIELD ACTIVITY REPORT
FOR

MAY 2007
QUARTERLY GROUNDWATER
SAMPLING EVENT

HOPYARD CLEANERS
2771 HOPYARD ROAD
PLEASANTON, CALIFORNIA

Prepared for: GeoSyntec Consultants
475-14th Street, Suite 450
Oakland, California 94612

Date Prepared: May 16, 2007

FIELD ACTIVITY REPORT
FOR

MAY 2007
QUARTERLY GROUNDWATER
SAMPLING EVENT

HOPYARD CLEANERS
2771 HOPYARD ROAD
PLEASANTON, CALIFORNIA

Prepared for: GeoSyntec Consultants
475-14th Street, Suite 450
Oakland, California 94612

Date Prepared: May 16, 2007

Environmental
Sampling Services

FIELD ACTIVITY REPORT
FOR

MAY 2007
QUARTERLY GROUNDWATER
SAMPLING EVENT

HOPYARD CLEANERS
2771 HOPYARD ROAD
PLEASANTON, CALIFORNIA

Task: Quarterly Groundwater Sampling Event
ESS Personnel: Stephen Penman
Date of Activities: May 11, 2007

Decontamination Procedures

All downhole equipment was cleaned with Liqui-Nox® laboratory-grade soap, potable water, and rinsed with distilled water prior to use and between each monitoring well.

Field Equipment Calibration

A YSI® Multiparameter instrument with in-line flow through chamber and Turbidity meter was used to monitor water quality parameters during well purging. The meters were calibrated to standard solutions (see Daily Equipment Calibration Sheet) prior to purging activities.

Groundwater Level Measurements

Following atmospheric equilibration of approximately twenty minutes, depth to groundwater was measured and recorded for each monitoring well. All readings were performed with a Solinst® Water Level Meter, Serial Number 25083, and referenced to the surveyor's mark at the top of PVC well casing (Table 1). Three successive readings that agreed to within one-hundredth of a foot determined depth to groundwater.

Organic vapor readings were not required.

Water Quality Parameters

The following water quality parameters were monitored and recorded during well purging: pH, Specific Conductance (uS), Temperature (Celsius), Dissolved Oxygen (mg/L), Oxidation/Reduction Potential (mV), and physical characteristics such as pumping water level, color, and odor (see Water Quality Sample Log Sheets).

Environmental
Sampling Services

Well Purging & Sampling Procedures

A peristaltic pump and dedicated pump tubing was used for purging and sampling. Each monitoring well was purged at a rate no greater than 500-ml per minute until water quality parameters stabilized for three consecutive readings.

EPA stabilization guidelines were used. The readings were within ± 0.1 for pH, ± 3 % for Specific Conductivity, ± 10 mV for ORP, ± 10 NTUs for Turbidity, and ± 10% for Dissolved Oxygen.

Groundwater samples were collected immediately following stabilization of water quality parameters by disconnecting the tubing from the flow through chamber.

Chemical Analyses

All wells were sampled for Volatile Organic Compounds by EPA Method 8260B.

Sample Containers

Severn Trent Laboratories (STL-SF) of Pleasanton, California provided all sample containers.

Each VOCs sample set was contained in three, 40-ml VOA clear glass containers preserved with hydrochloric acid.

Sample Handling

All sample labels were completed with waterproof ink and affixed to sample containers.

During decanting, 40-ml VOA sample containers were slightly tilted to avoid aeration or degassing. Each sample container was inverted and tapped lightly to check for air bubbles. The absence of air bubbles indicated a successful seal.

All sample containers were wiped dry, sealed in Ziploc® bags, and placed a chilled cooler for storage and shipment.

QA/QC

A Trip Blank set, supplied by STL-SF, was stored in the cooler throughout the sampling event and submitted for analysis.

One blind duplicate set was collected from MW-2 and labeled "MW-DUP @ 11:17".

An equipment blank set was collected between after sampling MW-2. Laboratory-supplied distilled water and a short section of new pump tubing was used. The equipment blank was labeled "ER-1 @ 12:02".

No other QA/QC samples were requested.

Chain of Custody (COC) Form

All sample handling was conducted under standard chain of custody procedures. The COC included: sampler's name and signature, sample identification, sample date and time, and analysis request section.

Environmental
Sampling Services

Shipment of Samples

Samples were relinquished to STL-SF May 11, 2007.

Storage of Investigative Derived Wastewater (IDW)

The existing drum from last quarter was gone. Approximately 5 gallons of purged groundwater and decontamination water generated from this sampling event were stored a new, labeled 55-gallon drum. The drum is stored along the southeast corner of the property.

Jacqueline Lee
Partner

Enclosure
Table 1: Summary of Groundwater Sampling Event
Water Sample Log Sheets
Equipment Calibration Sheet
Chain of Custody

Environmental Sampling Services

Table 1: Summary of May 2007 Quarterly Groundwater Sampling Event
Project Name: Hopyard Cleaners
Project Location: 2771 Hopyard Road, Pleasanton, California

Well/Sample Identification	Date of Measurement	Time of Measurement	Depth to Groundwater (Ft., TOC)	Well Depth (Ft., TOC)	Sample Date	Sample Time	QA/QC Type	QA/QC Sample Identification
MW-1	5/11/2007	10:25	12.27	30.27	5/11/2007	10:57	None	NA
MW-2	5/11/2007	10:23	11.87	30.31	5/11/2007	11:40	Duplicate	MW-DUP
MW-3	5/11/2007	10:20	12.72	30.29	5/11/2007	12:25	Equipment Blank	ER-1

Legend:

TOC = Top of Well Casing
NA = Not Applicable

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-1 DATE: 5/11/2007

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Project Manager: Melissa Asher - Geosyntec Cons. Lab: STL San Francisco Weather Conditions: Clear, Cool, Breezy
Well Description: (2") 3.5" 4" 5" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? (Yes) / No Bolt Size: 9/16" Type of lock / Lock number: Master
Observations / Comments: set pump intake @ 25.27 ft.(BTOC) Screen Interval: 20' to 30'
Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____
Pump Lines: NA New / Cleaned (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated
Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____
YSI Muti-Parameter Meter/Probe Serial No.: (556 MPS - 05F1258AH) / 600XL 319340R - 00C1522
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm
Water Level at Start (DTW): 12.27 @ 10:25 (BTOC) Water Level Prior To Sampling: 12.48 (BTOC)
TD = 30.27' - 12.27 (DTW) = 18.0 (ft.of water) x "K" = 2.93 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K" = 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance mS (uS) +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
5/11/07	10:31	Initial	7.11	21.24	1305	2.18	141.8	3.12	12.49	Clear
	10:33	0.5	6.86	20.78	1308	1.89	131.7	0.82	12.48	"
	10:35	1.0	6.74	20.64	1308	1.58	130.7	0.70	12.48	"
	10:37	1.5	6.68	20.65	1308	1.52	128.6	0.70	12.48	"
	10:39	2.0	6.68	20.77	1303	1.33	124.6	0.72	12.48	"
	10:41	2.5	6.68	20.76	1303	1.27	122.0	0.67	12.48	"
	10:43	3.0	6.70	20.73	1304	1.11	116.0	0.60	12.48	"
	10:45	3.5	6.73	20.54	1306	1.08	108.6	0.53	12.48	"
↓	10:47	4.0	6.72	20.62	1305	0.95	105.2	0.49	12.48	"

Total Discharge: 6.5 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 5/11/07 @ 10:57 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: None @ — Duplicate MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: _____

Recorded by: (Stephen Penman) / Jacki Lee Signature: [signature]

6680 Alhambra Ave., #102 • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-1	Page 2

Project Name: Hopyard Cleaners Pleasanton, CA

FIELD WATER QUALITY PARAMETERS CONTINUED FROM PAGE 1

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance mS (uS) +/- 3%	Turbidity (NTUs) +/-10	Redox (mV) +/-10	Dissolved Oxygen (mg/L) 10%	Water Level (BTOC)	Color
5/11/07	10:49	4.5	6.74	20.52	1302	0.86	101.1	0.44	12.48	Clear
"	10:51	5.0	6.74	20.42	1303	0.81	97.0	0.40	12.48	"
"	10:53	5.5	6.74	20.39	1303	0.76	95.0	0.40	12.48	"
"	10:55	6.0	6.75	20.45	1304	0.71	92.3	0.39	12.48	"
		6.5								
		7.0								
		7.5								
		8.0								
		8.5								
		9.0								
		9.5								
		10.0								
		10.5								
		11.0								
		11.5								
		12.0								
		12.5								
		13.0								
		13.5								
		14.0								

Total Discharge: 6.5 Liters Casing Volumes Removed: NA

Comments: _____

Recorded by: Stephen Penman / Jacki Lee Signature: [signature]

6680 Alhambra Ave., #102 • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-2 DATE: 5/11/07

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Project Manager: Melissa Asher - Geosyntec Cons. Lab: STL San Francisco Weather Conditions: Clear + Warm
Well Description: (2") 3.5" 4" 5" 6" Other:_____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? (Yes) No Bolt Size: 9/16" Type of lock / Lock number: Master
Observations / Comments: set pump intake @ 25.31 ft.(BTOC) Screen Interval: 20' to 30'
Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____
Pump Lines: NA New / Cleaned (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated
Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____
YSI Muti-Parameter Meter/Probe Serial No. (556 MPS - 05F1258AH) / 600XL 319340R - 00C1522
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope Indicator Serial No. (25083) / 25742 P.I.D. Reading: NA ppm
Water Level at Start (DTW): 11.87 @ 10:23 (BTOC) Water Level Prior To Sampling: 12.08 (BTOC)
TD = 30.31' - 11.87 (DTW) = 18.44 (ft.of water) x "K" = 3.0 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K" = 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance mS (uS) +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
5/11/07	11:17	Initial	7.04	20.15	1411	2.04	91.3	1.72	12.07	clear
	11:20	0.5	6.91	19.86	1417	1.61	95.0	0.90	12.07	"
	11:22	1.0	6.89	19.86	1417	1.49	96.1	0.90	12.07	"
	11:24	1.5	6.88	19.86	1416	1.28	97.3	0.85	12.07	"
	11:26	2.0	6.88	19.88	1417	0.84	98.3	0.73	12.07	"
	11:28	2.5	6.88	19.85	1418	0.80	99.4	0.63	12.07	"
	11:30	3.0	6.88	19.94	1417	0.76	99.9	0.59	12.08	"
	11:32	3.5	6.88	19.94	1417	0.61	100.4	0.53	12.08	"
↓	11:34	4.0	6.88	19.94	1417	0.53	100.2	0.51	12.08	"

Total Discharge: 5 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____
Date/Time Sampled: 5/11/07 @ 11:40 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: MW-Dup @ 11:17 (Duplicate) MS/MSD Equipment Rinseate Field Blank Lab Split
Comments: _____

Recorded by: (Stephen Penman) / Jacki Lee Signature: [signature]

6680 Alhambra Ave., #102 • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-2	Page 2

Project Name: Hopyard Cleaners Pleasanton, CA

FIELD WATER QUALITY PARAMETERS CONTINUED FROM PAGE 1

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance mS (uS) +/- 3%	Turbidity (NTUs) +/-10	Redox (mV) +/-10	Dissolved Oxygen (mg/L) 10%	Water Level (BTOC)	Color
5/11/07	11:36	4.5	6.87	19.87	1416	0.48	100.7	0.49	12.08	Clear
		5.0								
		5.5								
		6.0								
		6.5								
		7.0								
		7.5								
		8.0								
		8.5								
		9.0								
		9.5								
		10.0								
		10.5								
		11.0								
		11.5								
		12.0								
		12.5								
		13.0								
		13.5								
		14.0								

Total Discharge: 5.0 Liters Casing Volumes Removed: NA

Comments: _____

Recorded by: Stephen Penman / Jacki Lee Signature: [signature]

6680 Alhambra Ave., #102 • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION: MW-3 DATE: 5/11/07

Project Name: Hopyard Cleaners Pleasanton, CA Project Task: Quarterly Monitoring Project/Task No. WR0574
Project Manager: Melissa Asher - Geosyntec Cons. Lab: STL San Francisco Weather Conditions: Clear & Warm
Well Description: (2") 3.5" 4" 5" 6" Other:_____ Well Type: (PVC) Stainless Steel Other: _____
Is Well Secured? (Yes) / No Bolt Size: 9/16" Type of lock / Lock number: Master
Observations / Comments: set pump intake @ 25.89 ft.(BTOC) Screen Interval: 20' to 30'
Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____
Pump Lines: NA New / Cleaned (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated
Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____
Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____
YSI Muti-Parameter Meter/Probe Serial No.: (556 MPS - 05F1258AH) / 600XL 319340R - 00C1522
Equipment Calibration: See Daily Equipment Calibration Sheet
Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm
Water Level at Start (DTW): 12.72@ 10:20 (BTOC) Water Level Prior To Sampling: 13.14 (BTOC)
TD = 30.29' - 12.72 (DTW) = 17.57 (ft.of water) x "K" = 2.9 (Gals./CV) x NA (No. of CV) = NA (Gals.)
("K"= 0.163 (2" well)) "K" = 0.50 (3.5" well) "K" = .653 (4" well) "K" = 1.02 (5" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH +/- 0.1	Temp. (°C)	Specific Conductance mS (uS) +/- 3%	Turbidity (NTU's) +/- 10	Redox (mV) +/- 10	Dissolved Oxygen (mg/L) +/- 10%	Water Level (BTOC)	Color
5/11/07	12:09	Initial	6.98	20.35	1648	1.93	105.6	2.30	13.12	clear
	12:12	0.5	6.87	20.16	1652	1.24	104.4	1.23	13.13	"
	12:14	1.0	6.85	20.06	1654	1.15	104.1	1.08	13.14	"
	12:16	1.5	6.84	19.89	1658	0.93	103.9	0.94	13.14	"
	12:18	2.0	6.83	19.98	1653	0.88	104.1	0.88	13.14	"
	12:20	2.5	6.83	20.04	1655	0.72	104.6	0.84	13.14	"
	12:22	3.0	6.83	20.05	1654	0.66	104.7	0.80	13.14	"
		3.5								
		4.0								

Total Discharge: 3.5 Liters Casing Volumes Removed: NA
Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other: _____
Date/Time Sampled: 5/11/07 @ 12:25 Analysis: VOCs (8260B) - 3 VOAs w/HCl
QA/QC: ER-1 @ 12:02 Duplicate MS/MSD (Equipment Rinseate) Field Blank Lab Split
Comments: _____

Recorded by: (Stephen Penman) / Jacki Lee Signature: 

6680 Alhambra Ave., #102 • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

Environmental Sampling Services

SITE NAME: Hopyard Cleaners
SITE LOCATION: Pleasanton, CA
TASK: Mayy 2007 Quarterly Groundwater Monitoring Event

DAILY EQUIPMENT CALIBRATION SHEET

DATE	TIME	Instrument Serial Number	Probe Serial Number	Dissolved Oxygen (%)	pH 4	pH 7	pH 10	Specific Conductance 1,000 uS/cm	ORP mV	TURBIDITY NTU's
5/11/07	09:50	556 MPS	05F1258AH	99.9	3.99	7.00	10.03	1,000	237.4	0.02

SEVERN TRENT STL

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

Reference #: _____

Date May 11, 2007 Page 1 of 1

Report To

Attn: Melissa Asher
Company: Geosyntec Consultants
Address: 475 14th Street, Suite 400 Oakland CA 94612
Phone: (510) 836-3034 Email:
Bill To: SAME
Sampled By: ESS Stephen Penman
Attn:
Phone: (925) 372-8108

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Low Level Metals by EPA 200.8/6020 (ICP-MS): ___	W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ TDS ☐	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4				Number of Containers
Trip Blank	5/11/07	8:30	H_2O	HCl						X																	2
MW-1	5/11/07	10:57	H_2O	HCl						X																	3
MW-Dup	5/11/07	11:17	H_2O	HCl						X																	3
MW-2	5/11/07	11:40	H_2O	HCl						X																	3
ER-1	5/11/07	12:02	H_2O	HCl						X																	3
MW-3	5/11/07	12:25	H_2O	HCl						X																	3

Project Info.

Project Name: Hayward Cleaners Pleasanton, CA
Project#: WR0574
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 4.3°C
Conforms to record:

TAT: (5 Day) 72h 48h 24h Other:

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF
Special Instructions / Comments: ☐ Global ID _____

*STL SF reports 8015M from C_8-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 13:00	Signature: Time:	Signature: Time:
Printed Name: Stephen Penman Date: 5/11/07	Printed Name: Date:	Printed Name: Date:
Company: Environmental Sampling Svcs.	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1308	Signature: Time:	Signature: Time:
Printed Name: I. Bullock Date: 5/11/07	Printed Name: Date:	Printed Name: Date:
Company: STL-SF	Company:	Company:

Rev 06/04

ATTACHMENT 2
LABORATORY ANALYTICAL REPORT

STL

ANALYTICAL REPORT

Job Number: 720-9104-1

Job Description: Hopyard Cleaners

For:
GeoSyntec Consultants
475 14th Street, Suite 450
Oakland, CA 94612

Attention: Ms. Melissa Asher

Melissa Brewer

Melissa Brewer
Project Manager I
mbrewer@stl-inc.com
05/17/2007

cc: Mr. Sergio Santos

Project Manager: Melissa Brewer

Severn Trent Laboratories, Inc.
STL San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.stl-inc.com

I. Comments
No additional comments.

II. Receipt
All samples were received in good condition within temperature requirements.

III. GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-9104-2	**MW-1**				
cis-1,2-Dichloroethene		310	20	ug/L	8260B
Tetrachloroethene		2500	20	ug/L	8260B
Trichloroethene		310	20	ug/L	8260B
720-9104-3	**MW-DUP**				
cis-1,2-Dichloroethene		980	50	ug/L	8260B
Tetrachloroethene		7300	50	ug/L	8260B
Trichloroethene		450	50	ug/L	8260B
720-9104-4	**MW-2**				
cis-1,2-Dichloroethene		1000	50	ug/L	8260B
Tetrachloroethene		7200	50	ug/L	8260B
Trichloroethene		490	50	ug/L	8260B
720-9104-6	**MW-3**				
cis-1,2-Dichloroethene		5.5	0.50	ug/L	8260B
Tetrachloroethene		43	0.50	ug/L	8260B
Trichloroethene		4.4	0.50	ug/L	8260B

METHOD SUMMARY

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS (Low Level)	STL SF	SW846 8260B	
Purge-and-Trap	STL SF		SW846 5030B

LAB REFERENCES:

STL SF = STL San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-9104-1	TRIP BLANK	Water	05/11/2007 0930	05/11/2007 1308
720-9104-2	MW-1	Water	05/11/2007 1057	05/11/2007 1308
720-9104-3	MW-DUP	Water	05/11/2007 1117	05/11/2007 1308
720-9104-4	MW-2	Water	05/11/2007 1140	05/11/2007 1308
720-9104-5	ER-1	Water	05/11/2007 1202	05/11/2007 1308
720-9104-6	MW-3	Water	05/11/2007 1225	05/11/2007 1308

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-9104-1
Client Matrix: Water

Date Sampled: 05/11/2007 0930
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/15/2007 1230
Date Prepared: 05/15/2007 1230

Analysis Batch: 720-21589

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-9104-1
Client Matrix: Water

Date Sampled: 05/11/2007 0930
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/15/2007 1230
Date Prepared: 05/15/2007 1230

Analysis Batch: 720-21589

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	116	83 - 127
1,2-Dichloroethane-d4 (Surr)	108	86 - 129
Toluene-d8 (Surr)	117	82 - 126

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Client Sample ID: MW-1

Lab Sample ID: 720-9104-2
Client Matrix: Water

Date Sampled: 05/11/2007 1057
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 40
Date Analyzed: 05/16/2007 1443
Date Prepared: 05/16/2007 1443

Analysis Batch: 720-21613

Instrument ID: Varian 3900F
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		200
Acetone	ND		2000
Benzene	ND		20
Dichlorobromomethane	ND		20
Bromobenzene	ND		40
Chlorobromomethane	ND		40
Bromoform	ND		40
Bromomethane	ND		40
Methyl Ethyl Ketone	ND		2000
n-Butylbenzene	ND		40
sec-Butylbenzene	ND		40
tert-Butylbenzene	ND		40
Carbon disulfide	ND		200
Carbon tetrachloride	ND		20
Chlorobenzene	ND		20
Chloroethane	ND		40
Chloroform	ND		40
Chloromethane	ND		40
2-Chlorotoluene	ND		20
4-Chlorotoluene	ND		20
Chlorodibromomethane	ND		20
1,2-Dichlorobenzene	ND		20
1,3-Dichlorobenzene	ND		20
1,4-Dichlorobenzene	ND		20
1,3-Dichloropropane	ND		40
1,1-Dichloropropene	ND		20
1,2-Dibromo-3-Chloropropane	ND		40
Ethylene Dibromide	ND		20
Dibromomethane	ND		20
Dichlorodifluoromethane	ND		20
1,1-Dichloroethane	ND		20
1,2-Dichloroethane	ND		20
1,1-Dichloroethene	ND		20
cis-1,2-Dichloroethene	310		20
trans-1,2-Dichloroethene	ND		20
1,2-Dichloropropane	ND		20
cis-1,3-Dichloropropene	ND		20
trans-1,3-Dichloropropene	ND		20
Ethylbenzene	ND		20
Hexachlorobutadiene	ND		40
2-Hexanone	ND		2000
Isopropylbenzene	ND		20
4-Isopropyltoluene	ND		40

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Client Sample ID: MW-1

Lab Sample ID: 720-9104-2
Client Matrix: Water

Date Sampled: 05/11/2007 1057
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 40
Date Analyzed: 05/16/2007 1443
Date Prepared: 05/16/2007 1443

Analysis Batch: 720-21613

Instrument ID: Varian 3900F
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		200
methyl isobutyl ketone	ND		2000
Naphthalene	ND		40
N-Propylbenzene	ND		40
Styrene	ND		20
1,1,1,2-Tetrachloroethane	ND		20
1,1,2,2-Tetrachloroethane	ND		20
Tetrachloroethene	2500		20
Toluene	ND		20
1,2,3-Trichlorobenzene	ND		40
1,2,4-Trichlorobenzene	ND		40
1,1,1-Trichloroethane	ND		20
1,1,2-Trichloroethane	ND		20
Trichloroethene	310		20
Trichlorofluoromethane	ND		40
1,2,3-Trichloropropane	ND		20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20
1,2,4-Trimethylbenzene	ND		20
1,3,5-Trimethylbenzene	ND		20
Vinyl acetate	ND		2000
Vinyl chloride	ND		20
Xylenes, Total	ND		40
2,2-Dichloropropane	ND		20

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	83 - 127
1,2-Dichloroethane-d4 (Surr)	102	86 - 129
Toluene-d8 (Surr)	97	82 - 126

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Client Sample ID: MW-DUP

Lab Sample ID: 720-9104-3
Client Matrix: Water

Date Sampled: 05/11/2007 1117
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 05/15/2007 1559
Date Prepared: 05/15/2007 1559

Analysis Batch: 720-21589

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		500
Acetone	ND		5000
Benzene	ND		50
Dichlorobromomethane	ND		50
Bromobenzene	ND		100
Chlorobromomethane	ND		100
Bromoform	ND		100
Bromomethane	ND		100
Methyl Ethyl Ketone	ND		5000
n-Butylbenzene	ND		100
sec-Butylbenzene	ND		100
tert-Butylbenzene	ND		100
Carbon disulfide	ND		500
Carbon tetrachloride	ND		50
Chlorobenzene	ND		50
Chloroethane	ND		100
Chloroform	ND		100
Chloromethane	ND		100
2-Chlorotoluene	ND		50
4-Chlorotoluene	ND		50
Chlorodibromomethane	ND		50
1,2-Dichlorobenzene	ND		50
1,3-Dichlorobenzene	ND		50
1,4-Dichlorobenzene	ND		50
1,3-Dichloropropane	ND		100
1,1-Dichloropropene	ND		50
1,2-Dibromo-3-Chloropropane	ND		100
Ethylene Dibromide	ND		50
Dibromomethane	ND		50
Dichlorodifluoromethane	ND		50
1,1-Dichloroethane	ND		50
1,2-Dichloroethane	ND		50
1,1-Dichloroethene	ND		50
cis-1,2-Dichloroethene	980		50
trans-1,2-Dichloroethene	ND		50
1,2-Dichloropropane	ND		50
cis-1,3-Dichloropropene	ND		50
trans-1,3-Dichloropropene	ND		50
Ethylbenzene	ND		50
Hexachlorobutadiene	ND		100
2-Hexanone	ND		5000
Isopropylbenzene	ND		50
4-Isopropyltoluene	ND		100

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Client Sample ID: MW-DUP

Lab Sample ID: 720-9104-3
Client Matrix: Water

Date Sampled: 05/11/2007 1117
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 05/15/2007 1559
Date Prepared: 05/15/2007 1559

Analysis Batch: 720-21589

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		500
methyl isobutyl ketone	ND		5000
Naphthalene	ND		100
N-Propylbenzene	ND		100
Styrene	ND		50
1,1,1,2-Tetrachloroethane	ND		50
1,1,2,2-Tetrachloroethane	ND		50
Tetrachloroethene	7300		50
Toluene	ND		50
1,2,3-Trichlorobenzene	ND		100
1,2,4-Trichlorobenzene	ND		100
1,1,1-Trichloroethane	ND		50
1,1,2-Trichloroethane	ND		50
Trichloroethene	450		50
Trichlorofluoromethane	ND		100
1,2,3-Trichloropropane	ND		50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50
1,2,4-Trimethylbenzene	ND		50
1,3,5-Trimethylbenzene	ND		50
Vinyl acetate	ND		5000
Vinyl chloride	ND		50
Xylenes, Total	ND		100
2,2-Dichloropropane	ND		50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	113	83 - 127
1,2-Dichloroethane-d4 (Surr)	106	86 - 129
Toluene-d8 (Surr)	114	82 - 126

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Client Sample ID: **MW-2**

Lab Sample ID: 720-9104-4
Client Matrix: Water

Date Sampled: 05/11/2007 1140
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 05/15/2007 1634
Date Prepared: 05/15/2007 1634

Analysis Batch: 720-21589

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		500
Acetone	ND		5000
Benzene	ND		50
Dichlorobromomethane	ND		50
Bromobenzene	ND		100
Chlorobromomethane	ND		100
Bromoform	ND		100
Bromomethane	ND		100
Methyl Ethyl Ketone	ND		5000
n-Butylbenzene	ND		100
sec-Butylbenzene	ND		100
tert-Butylbenzene	ND		100
Carbon disulfide	ND		500
Carbon tetrachloride	ND		50
Chlorobenzene	ND		50
Chloroethane	ND		100
Chloroform	ND		100
Chloromethane	ND		100
2-Chlorotoluene	ND		50
4-Chlorotoluene	ND		50
Chlorodibromomethane	ND		50
1,2-Dichlorobenzene	ND		50
1,3-Dichlorobenzene	ND		50
1,4-Dichlorobenzene	ND		50
1,3-Dichloropropane	ND		100
1,1-Dichloropropene	ND		50
1,2-Dibromo-3-Chloropropane	ND		100
Ethylene Dibromide	ND		50
Dibromomethane	ND		50
Dichlorodifluoromethane	ND		50
1,1-Dichloroethane	ND		50
1,2-Dichloroethane	ND		50
1,1-Dichloroethene	ND		50
cis-1,2-Dichloroethene	1000		50
trans-1,2-Dichloroethene	ND		50
1,2-Dichloropropane	ND		50
cis-1,3-Dichloropropene	ND		50
trans-1,3-Dichloropropene	ND		50
Ethylbenzene	ND		50
Hexachlorobutadiene	ND		100
2-Hexanone	ND		5000
Isopropylbenzene	ND		50
4-Isopropyltoluene	ND		100

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Client Sample ID: **MW-2**

Lab Sample ID: 720-9104-4
Client Matrix: Water

Date Sampled: 05/11/2007 1140
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 05/15/2007 1634
Date Prepared: 05/15/2007 1634

Analysis Batch: 720-21589

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		500
methyl isobutyl ketone	ND		5000
Naphthalene	ND		100
N-Propylbenzene	ND		100
Styrene	ND		50
1,1,1,2-Tetrachloroethane	ND		50
1,1,2,2-Tetrachloroethane	ND		50
Tetrachloroethene	7200		50
Toluene	ND		50
1,2,3-Trichlorobenzene	ND		100
1,2,4-Trichlorobenzene	ND		100
1,1,1-Trichloroethane	ND		50
1,1,2-Trichloroethane	ND		50
Trichloroethene	490		50
Trichlorofluoromethane	ND		100
1,2,3-Trichloropropane	ND		50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50
1,2,4-Trimethylbenzene	ND		50
1,3,5-Trimethylbenzene	ND		50
Vinyl acetate	ND		5000
Vinyl chloride	ND		50
Xylenes, Total	ND		100
2,2-Dichloropropane	ND		50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	114	83 - 127
1,2-Dichloroethane-d4 (Surr)	109	86 - 129
Toluene-d8 (Surr)	119	82 - 126

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Client Sample ID: ER-1

Lab Sample ID: 720-9104-5
Client Matrix: Water

Date Sampled: 05/11/2007 1202
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/15/2007 1340
Date Prepared: 05/15/2007 1340

Analysis Batch: 720-21589

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0

Client: GeoSyntec Consultants | Job Number: 720-9104-1

Client Sample ID: ER-1

Lab Sample ID: 720-9104-5
Client Matrix: Water

Date Sampled: 05/11/2007 1202
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/15/2007 1340
Date Prepared: 05/15/2007 1340

Analysis Batch: 720-21589

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	115	83 - 127
1,2-Dichloroethane-d4 (Surr)	107	86 - 129
Toluene-d8 (Surr)	113	82 - 126

Client: GeoSyntec Consultants | Job Number: 720-9104-1

Client Sample ID: **MW-3**

Lab Sample ID: 720-9104-6
Client Matrix: Water

Date Sampled: 05/11/2007 1225
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/15/2007 1305
Date Prepared: 05/15/2007 1305

Analysis Batch: 720-21589

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	5.5		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Client Sample ID: MW-3

Lab Sample ID: 720-9104-6
Client Matrix: Water

Date Sampled: 05/11/2007 1225
Date Received: 05/11/2007 1308

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 05/15/2007 1305
Date Prepared: 05/15/2007 1305

Analysis Batch: 720-21589

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\05
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	43		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	4.4		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	114	83 - 127
1,2-Dichloroethane-d4 (Surr)	110	86 - 129
Toluene-d8 (Surr)	116	82 - 126

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: GeoSyntec Consultants

Job Number: 720-9104-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-21589					
LCS 720-21589/1	Lab Control Spike	T	Water	8260B	
MB 720-21589/2	Method Blank	T	Water	8260B	
720-9104-1	TRIP BLANK	T	Water	8260B	
720-9104-3	MW-DUP	T	Water	8260B	
720-9104-4	MW-2	T	Water	8260B	
720-9104-5	ER-1	T	Water	8260B	
720-9104-6	MW-3	T	Water	8260B	
720-9104-6MS	Matrix Spike	T	Water	8260B	
720-9104-6MSD	Matrix Spike Duplicate	T	Water	8260B	
Analysis Batch:720-21613					
LCS 720-21613/1	Lab Control Spike	T	Water	8260B	
MB 720-21613/2	Method Blank	T	Water	8260B	
720-9104-2	MW-1	T	Water	8260B	

Report Basis
T = Total

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Method Blank - Batch: 720-21589

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-21589/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/15/2007 1155
Date Prepared: 05/15/2007 1155

Analysis Batch: 720-21589
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Method Blank - Batch: 720-21589

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-21589/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/15/2007 1155
Date Prepared: 05/15/2007 1155

Analysis Batch: 720-21589
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	115	83 - 127
1,2-Dichloroethane-d4 (Surr)	108	86 - 129
Toluene-d8 (Surr)	114	82 - 126

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Lab Control Spike - Batch: 720-21589

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-21589/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/15/2007 1120
Date Prepared: 05/15/2007 1120

Analysis Batch: 720-21589
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200705\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	20.0	19.2	96	69 - 129	
Chlorobenzene	20.0	20.7	103	61 - 121	
1,1-Dichloroethene	20.0	19.6	98	65 - 125	
Toluene	20.0	19.7	98	70 - 130	
Trichloroethene	20.0	17.5	88	74 - 134	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	110	83 - 127
1,2-Dichloroethane-d4 (Surr)	99	86 - 129
Toluene-d8 (Surr)	107	82 - 126

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-21589

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-9104-6	Analysis Batch: 720-21589	Instrument ID: Varian 3900D
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200705\(
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	05/15/2007 1415		Final Weight/Volume: 40 mL
Date Prepared:	05/15/2007 1415		

MSD Lab Sample ID:	720-9104-6	Analysis Batch: 720-21589	Instrument ID: Varian 3900D
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200705\0
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	05/15/2007 1449		Final Weight/Volume: 40 mL
Date Prepared:	05/15/2007 1449		

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	100	104	69 - 129	4	20		
Chlorobenzene	106	109	61 - 121	3	20		
1,1-Dichloroethene	99	101	65 - 125	2	20		
Toluene	100	107	70 - 130	7	20		
Trichloroethene	86	89	74 - 134	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	108	110	83 - 127
1,2-Dichloroethane-d4 (Surr)	109	104	86 - 129
Toluene-d8 (Surr)	111	112	82 - 126

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Method Blank - Batch: 720-21613

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-21613/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/16/2007 1156
Date Prepared: 05/16/2007 1156

Analysis Batch: 720-21613
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: c:\saturnws\data\200705\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Method Blank - Batch: 720-21613

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-21613/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/16/2007 1156
Date Prepared: 05/16/2007 1156

Analysis Batch: 720-21613
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: c:\saturnws\data\200705\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	100	83 - 127
1,2-Dichloroethane-d4 (Surr)	107	86 - 129
Toluene-d8 (Surr)	98	82 - 126

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: GeoSyntec Consultants

Job Number: 720-9104-1

Lab Control Spike - Batch: 720-21613

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-21613/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/16/2007 1122
Date Prepared: 05/16/2007 1122

Analysis Batch: 720-21613
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900F
Lab File ID: c:\saturnws\data\200705\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	20.0	19.3	97	69 - 129	
Chlorobenzene	20.0	22.3	111	61 - 121	
1,1-Dichloroethene	20.0	22.6	113	65 - 125	
Toluene	20.0	19.2	96	70 - 130	
Trichloroethene	20.0	19.2	96	74 - 134	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	96	83 - 127
1,2-Dichloroethane-d4 (Surr)	99	86 - 129
Toluene-d8 (Surr)	94	82 - 126

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

220-9104

Reference #: 10545

Date May 11, 2007 Page 1 of 1

Report To

Attn: Melissa Asher
Company: Geosyntec Consultants
Address: 475 14th Street, Suite 400 Oakland CA 94612
Phone: (510) 836-3034 Email:
Bill To: SAME
Sampled By: ESS Stephen Penman
Attn:
Phone: (925) 372-8108

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) EPA 8260B	Number of Containers
Trip Blank	5/11/07	930	H2O	HCl	X	2
MW-1	5/11/07	10:57	H2O	HCl	X	3
MW-Dup	5/11/07	11:17	H2O	HCl	X	3
MW-2	5/11/07	11:40	H2O	HCl	X	3
ER-1	5/11/07	12:02	H2O	HCl	X	3
MW-3	5/11/07	12:25	H2O	HCl	X	3

Project Info.

Project Name: Hopyard Cleaners Pleasanton, CA
Project#: WR0574
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 4.3°C
Conforms to record:

T.A.T.: (5 Day) 72h 48h 24h Other:

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF

Special Instructions / Comments:

1) Relinquished by:
Signature: [signature] Time: 13:08
Printed Name: Stephen Penman Date: 5/11/07
Company: Environmental Sampling Svcs.

2) Relinquished by:
Signature: Time:
Printed Name: Date:
Company:

3) Relinquished by:
Signature: Time:
Printed Name: Date:
Company:

1) Received by:
Signature: [signature] Time: 1308
Printed Name: T. Bullock Date: 5/11/07
Company: STL-SF

2) Received by:
Signature: Time:
Printed Name: Date:
Company:

3) Received by:
Signature: Time:
Printed Name: Date:
Company:

*STL SF reports 8015M from C9-C24 (industry norm). Default for 8015B is C10-C28

LOGIN SAMPLE RECEIPT CHECK LIST

Client: GeoSyntec Consultants

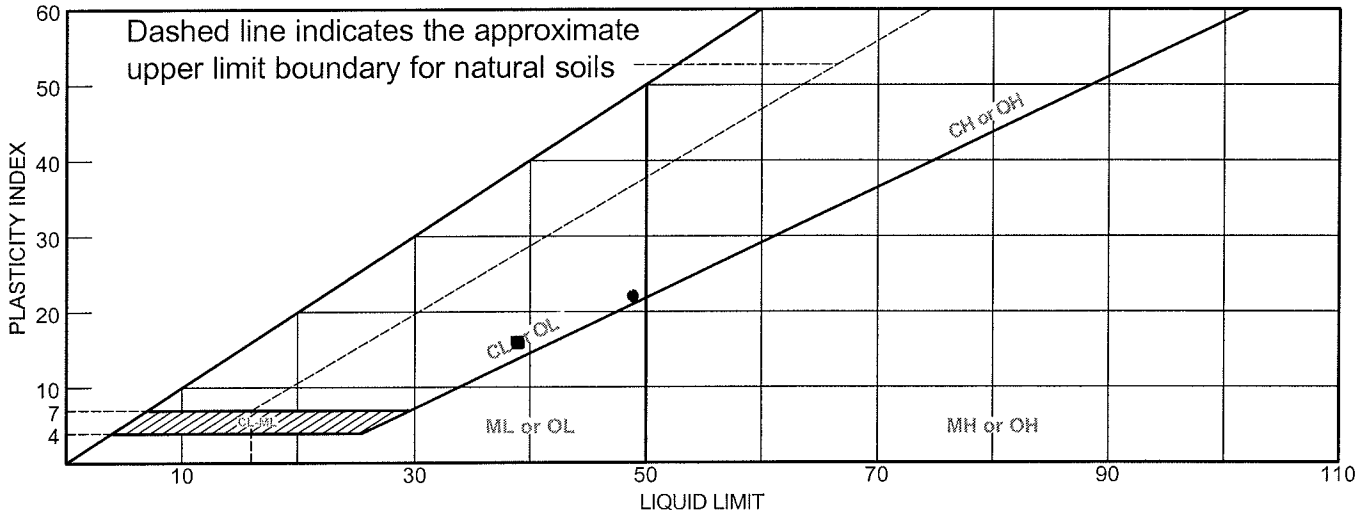
Job Number: 720-9104-1

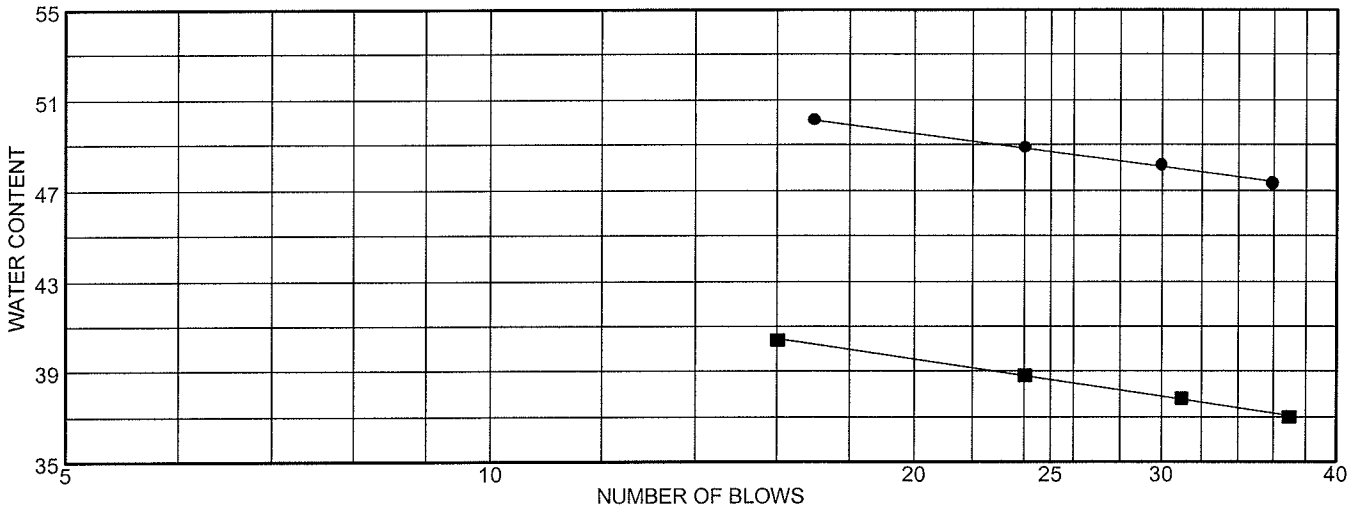
Login Number: 9104

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ATTACHMENT 3
SOIL PROPERTIES LABORATORY REPORT

LIQUID AND PLASTIC LIMITS TEST REPORT





	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Brown Lean CLAY	49	27	22	99.2	97.3	CL
■	Greenish Gray Lean CLAY	39	23	16	99.3	98.7	CL

Project No. 461-055 **Client:** Geosyntec Consultants

Project: Hopyard Cleaners - WR0574

● **Source:** B-43 **Elev./Depth:** 25-26'

■ **Source:** B-43 **Elev./Depth:** 29-30'

Remarks:

●

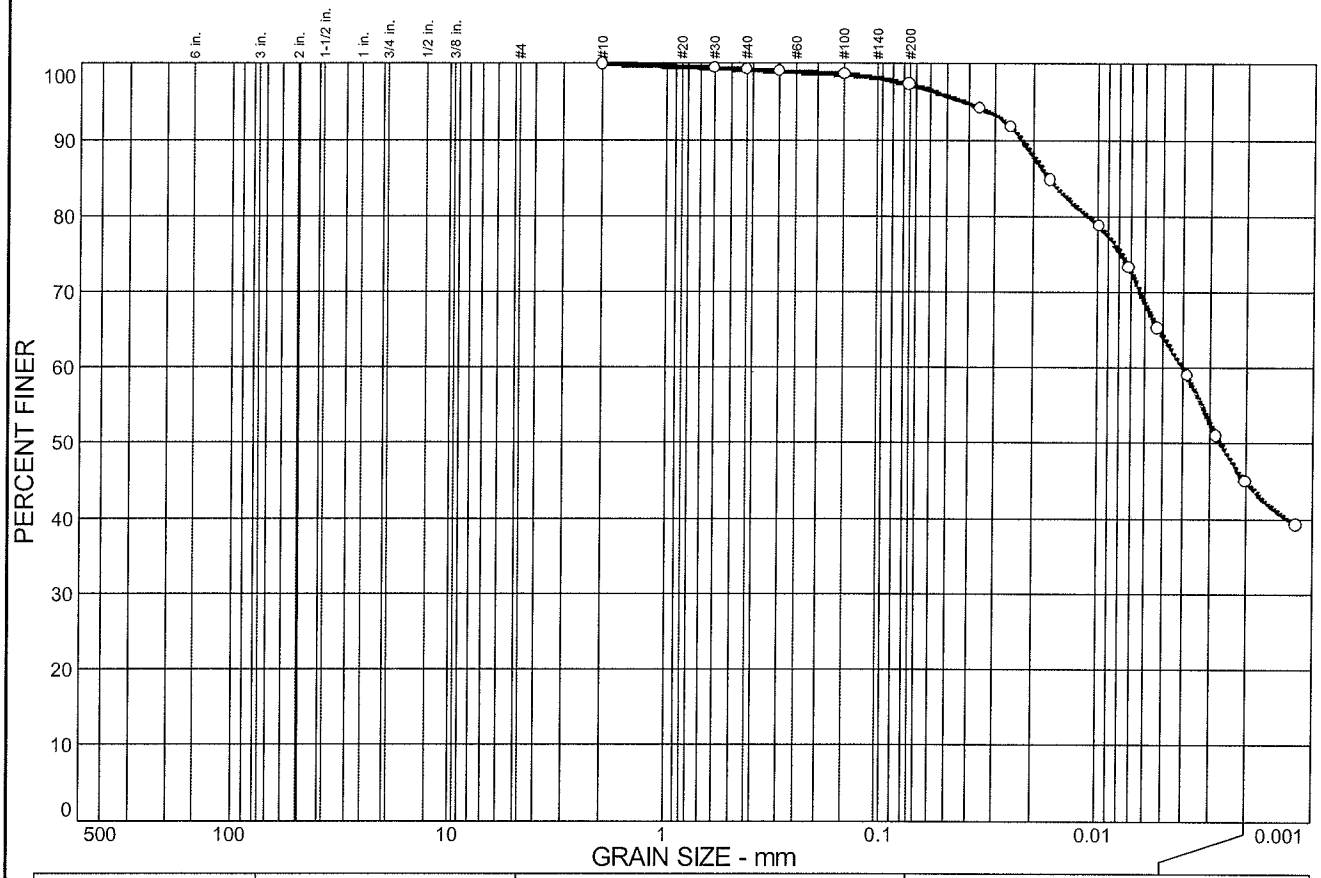
■

LIQUID AND PLASTIC LIMITS TEST REPORT

COOPER TESTING LABORATORY

Figure

PARTICLE SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.8	1.9	52.5	44.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#30	99.4		
#40	99.2		
#50	99.0		
#100	98.6		
#200	97.3		
0.0357 mm.	94.2		
0.0256 mm.	91.7		
0.0167 mm.	84.7		
0.0099 mm.	78.7		
0.0072 mm.	73.2		
0.0053 mm.	65.2		
0.0038 mm.	59.0		
0.0028 mm.	51.0		
0.0020 mm.	45.0		
0.0012 mm.	39.2		

* (no specification provided)

Soil Description

Brown Lean CLAY

Atterberg Limits

PL= 27 LL= 49 PI= 22

Coefficients

D_{85}= 0.0171 D_{60}= 0.0040 D_{50}= 0.0027
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

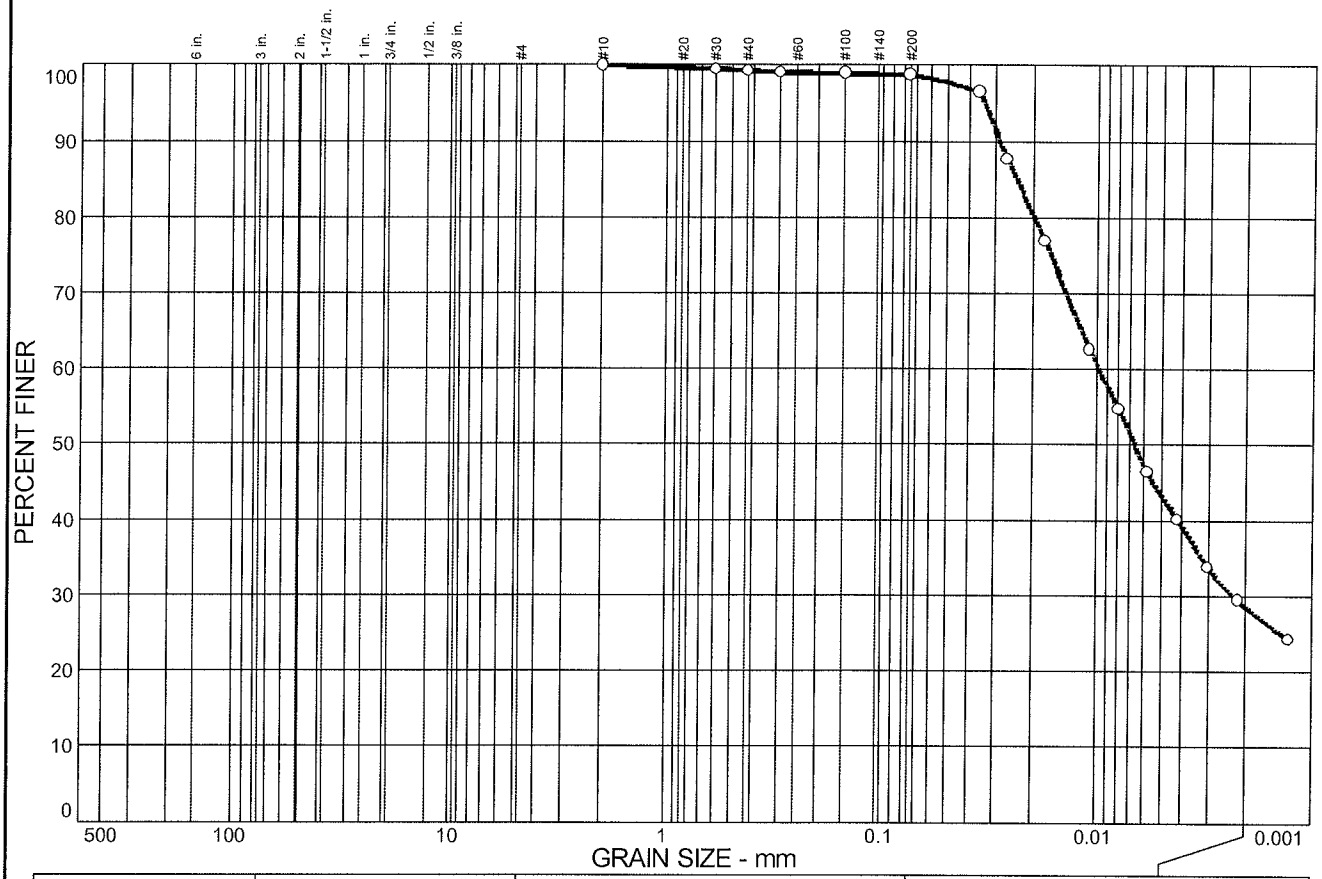
Remarks

Sample No.: **Source of Sample:** B-43 **Date:**
Location: **Elev./Depth:** 25-26'

COOPER TESTING LABORATORY

Client: Geosyntec Consultants
Project: Hopyard Cleaners - WR0574
Project No: 461-055 **Figure**

PARTICLE SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.7	0.6	70.2	28.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#30	99.5		
#40	99.3		
#50	99.1		
#100	98.9		
#200	98.7		
0.0360 mm.	96.5		
0.0267 mm.	87.7		
0.0178 mm.	76.9		
0.0109 mm.	62.6		
0.0079 mm.	54.8		
0.0058 mm.	46.4		
0.0042 mm.	40.1		
0.0030 mm.	33.9		
0.0022 mm.	29.5		
0.0013 mm.	24.3		

* (no specification provided)

Soil Description

Greenish Gray Lean CLAY

Atterberg Limits

PL= 23 LL= 39 PI= 16

Coefficients

D_{85}= 0.0241 D_{60}= 0.0098 D_{50}= 0.0067
D_{30}= 0.0023 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

Sample No.: **Source of Sample:** B-43 **Date:**
Location: **Elev./Depth:** 29-30'

COOPER TESTING LABORATORY

Client: Geosyntec Consultants
Project: Hopyard Cleaners - WR0574
Project No: 461-055 **Figure**

ATTACHMENT 4
BORING LOGS

Geosyntec consultants
475 14th Street, Suite 400
Oakland, California 94612
Telephone: 510.836.3034
Fax: 510.836.3036

KEY SHEET
CLASSIFICATIONS AND SYMBOLS

Project: Hopyard Cleaners

Location: 2771 Hopyard Road, Pleasanton **Project Number: WR0574**

EMPIRICAL CORRELATIONS WITH STANDARD PENETRATION RESISTANCE N VALUES *

	N Value * (Blows/ft)	Consistency	Unconfined Compressive Strength (tons/sq ft)
FINE GRAINED SOILS	0 - 2	Very Soft	<0.25
	3 - 4	Soft	0.25 - 0.50
	5 - 8	Medium Stiff	0.50 - 1.00
	9 - 15	Stiff	1.00 - 2.00
	16 - 30	Very Stiff	2.00 - 4.00
	>30	Hard	>4.00

	N Value * (Blows/ft)	Relative Density
COARSE GRAINED SOILS	0 - 4	Very Loose
	5 - 10	Loose
	11 - 30	Medium Dense
	31 - 50	Dense
	>50	Very Dense

* ASTM D 1586; number of blows of 140-pound hammer falling 30 inches to drive a 2-inch-O.D., 1.4-inch-I.D. sampler one foot.

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

MAJOR DIVISIONS			SYMBOLS	DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS LITTLE OR NO FINES	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
			GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO.4 SIEVE	GRAVELS WITH FINES APPRECIABLE AMOUNT OF FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
			GC	CLAYEY GRAVELS, GRAVEL -SAND-CLAY MIXTURES
MORE THAN 50% OF MATERIAL COARSER THAN NO. 200 SIEVE SIZE	SAND AND SANDY SOILS	CLEAN SANDS LITTLE OR NO FINES	SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION PASSING NO.4 SIEVE	SANDS WITH FINES APPRECIABLE AMOUNT OF FINES	SM	SILTY SANDS, SAND-SILT MIXTURES
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL FINER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILT
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENT

NOTE: DUAL SYMBOLS USED FOR BORDERLINE CLASSIFICATIONS

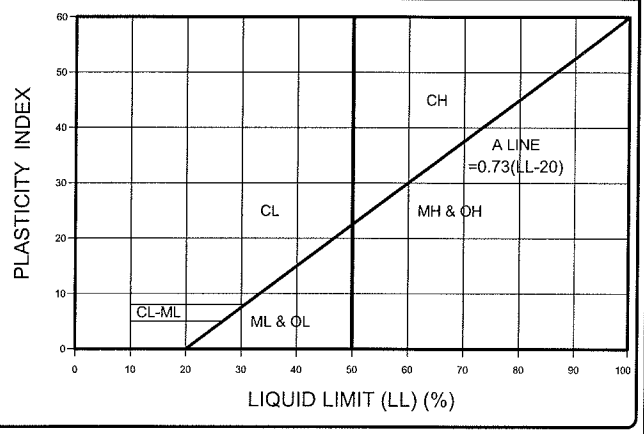
PARTICLE SIZE IDENTIFICATION

BOULDERS	>300 mm
COBBLES	75 - 300 mm
GRAVEL: COARSE	19.0 - 75 mm
GRAVEL: FINE	4.75 - 19 mm
SAND: COARSE	2.00 - 4.75 mm
SAND: MEDIUM	0.425 - 2.00 mm
SAND: FINE	0.075 - 0.425 mm
SILT	0.075 - 0.002 mm
CLAY	<0.002 mm

WELL GRADED - HAVING WIDE RANGE OF GRAIN SIZES AND APPRECIABLE AMOUNTS OF ALL INTERMEDIATE PARTICLE SIZES

POORLY GRADED - PREDOMINANTLY ONE GRAIN SIZE, OR HAVING A RANGE OF SIZES WITH SOME INTERMEDIATE SIZES MISSING

PLASTICITY CHART



SAMPLE SYMBOLS

- Geoprobe or dual-tube acetate liner
- Retained portion of direct push sample
- Hydropunch water sample
- 5-ft continuous dry soil core
- Grab sample
- SPT split spoon drive sampler

WELL SYMBOLS

- Concrete
- Cement grout
- Bentonite seal
- Filter sand
- Screen in filter sand
- Slough / soil backfill

WATER LEVEL SYMBOLS

- ▽ Water level at time of drilling
- ▼ Static water level measured at specified time after drilling/sampling or well completion

GENERAL NOTES

1. Soil classifications are based on the Unified Soil Classification System. Soil descriptions and stratum lines are interpretive, and actual changes may be gradual. Field descriptions may have been modified to reflect results of laboratory tests.
2. Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

Geosyntec consultants
475 14th Street, Suite 400
Oakland, California 94612
Telephone: 510.836.3034
Fax: 510.836.3036

LOG OF BORING B-43

Sheet 1 of 1

Project: Hopyard Cleaners

Location: 2771 Hopyard Road, Pleasanton **Project Number: WR0574**

Start Date	**6/27/07 at 09:00**	Finish Date	**6/27/07 at 10:30**	Total Depth Drilled (ft bgs)	**30.0**
Drilling Method	**Direct Push**	Drilling Contractor	**Cascade Drilling**	Ground Surface Elevation (ft MSL)	**Not surveyed**
Drill Rig	**Geoprobe 6600**	Sampling Method	**Vinyl acetate geoprobe liner**	Groundwater Observations	**Not encountered**
Borehole Backfill	**Grout mix of 95% neat cement and 5% bentonite**	Borehole Diameter	**2 inches**	Logger **M. Asher**	Reviewer **S. Felton**
Coordinates	**Not surveyed**	Remarks	**Boring hand augered to 6 feet.**		

Elevation, feet / Depth, feet	Sample Interval	Recovery, %	PID, ppm	Graphic Log	MATERIAL DESCRIPTION	FIELD NOTES
0					Asphalt 6 inches thick	
					[Borehole hand augered to 6 feet; material not sampled or observed to that depth.]	
			0.0			
5					SANDY SILT (ML), dark gray (7.5YR 4/1), dry, soft, low to medium plasticity, 5% fine gravel to 1/4 inch	
					Becomes dark grayish brown (2.5Y 4/2), stiff, medium plasticity, without gravel	
		83	0.0			
					SILTY SAND (SM), light brownish gray (2.5Y 6/2), dry, 30% fines, 70% fine to coarse sand and fine gravel to 1/4 inch	
10					CLAY (CH), olive brown (2.5Y 4/3), moist, medium stiff, high plasticity, 10% fine sand	
					SANDY CLAY (CH), as above except 30% coarse sand	
		71	0.0		Becomes wet, soft, without sand	
					Becomes moist	
15					Becomes very dark grayish brown (2.5Y 3/2), stiff	
					SILT (ML), olive brown (2.5Y 4/3), dry, medium stiff, low plasticity, 10% fine to medium sand	
		68	0.0		CLAY (CH), black (2.5Y 1/1), moist, very stiff, high plasticity	
20					Dark yellowish brown (10YR 4/4)	
		100	0.0		Dark yellowish brown (10YR 4/4)	
25					Becomes very dark gray (10YR 3/1), soft	Sample 25-26 ft sent for Atterberg Limits and particle size distribution testing.
		100			Becomes black (2.5Y 1/1), medium stiff	
					Becomes dark grayish brown (2.5Y 4/2)	Sample 29-30 ft sent for Atterberg Limits and particle size distribution testing.
30					Bottom of boring at 30.0 feet	